CE

ifm electronic

Operating instructions
Ex protection related part
Vibration sensor category 1G / 1D

UK

efector800

VSP01A

706297/00 12/2012

Remarks for safe use in hazardous areas

Functions and features

- Use in hazardous areas according to the classification
  II 1D (group II, category 1D, apparatus for dust atmosphere).
  Complies with the requirements of IEC 60079-0:2011 and IEC 60079-11:2011.
- Use in hazardous areas according to the classification
  II 1G (group II, category 1G, apparatus for gas atmosphere).
  Complies with the requirements of the standards IEC 60079-0:2011 and IEC 60079-11:2011.

- EC type examination certificate

Baseefa12ATEX0248X

- IEC Ex type examination certificate

IECEx BAS 12.0133 X

- Marking (see unit or technical data sheet)

1GD
Ex ia IIC T6 Ga
Ex ia IIIC T80 ºC IP 65 Da
(-55 ºC < Ta < +60 ºC)

Certified Temperature Range

Ex ia IIC T6 Ga (-55 °C < Ta < +60 °C) (gas)
Ex ia IIIC T80 °C IP 65 Da (-55 ºC < Ta < +60 ºC) (dust)
Ex ia IIC T4 Ga (-55 °C < Ta < +110 °C) (gas) *
Ex ia IIIC T130 °C IP 65 Da (-55 °C < Ta < +110 °C) (dust) *

* On Request - consult sales office

Sensor Temperature Range

-55 to 90 °C

Installation / Set-up

The units must only be installed, connected and set up by qualified staff. The qualified staff must have knowledge of types of protection, regulations and provisions for apparatus in hazardous areas.

Check whether the classification (→ "Functions and features" and marking on the unit) is suitable for the application.

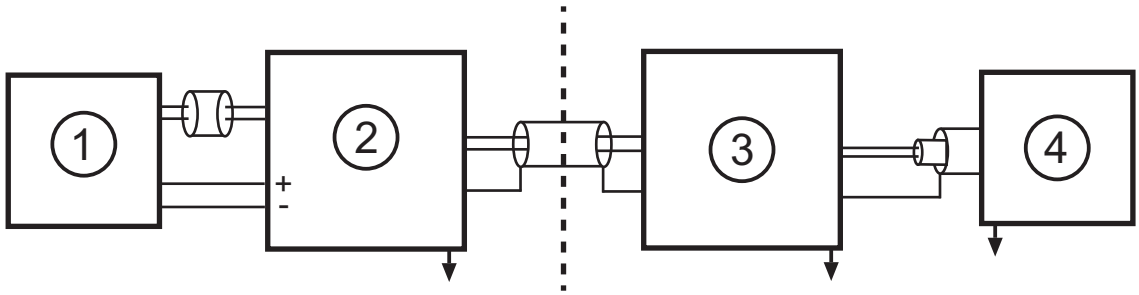
- Connection only to intrinsically safe circuits which are approved with the type examination certificate and do not exceed the following maximum values:

Ui = 28 V, Ii = 93 mA, Pi = 0.65 W

Installation remarks / Installation

- Adhere to the respective national regulations and provisions as well as the relevant installation regulations.
- Do not mount the unit in the dust flow.
- Avoid dust deposits on the units.
- Protect the units and the cables efficiently against damage.
- For the connections and the electrical characteristics please see the unit marking or the technical data sheet.

Mounting drawing

Non-hazardous area	Hazardous area
	
1: Non-hazardous area apparatus (diagnostic unit) 2: Isolator / Barrier Box	3: Junction box 4: VSP01A

Special conditions for safe operation

The unit must be connected to the external diagnostic unit via a certified isolated barrier.
Special conditions of safe use for group II (dust):
The free end of the cable on the integral cable version of the apparatus must be terminated in an appropriately dust-proof enclosure.

Maintenance / Repair

The unit must not be modified nor can it be repaired. In case of a fault please contact the manufacturer.
If required, the technical data sheets, type examination certificates and EC declarations of conformity can be obtained from the manufacturer. Indicate the article number.